Complete listing of all claims, with markings and status identifiers
(currently amended claims showing deletions by ~~strikethrough~~ and additions by underlining)

1. (Canceled)

2. (Canceled)

3. (Currently amended) A compound ~~according to claim 2~~ of formula (I),

(R^2R^3)-A^7-A^8-A^9-A^{10}-A^{11}-A^{12}-A^{13}-A^{14}-A^{15}-A^{16}-A^{17}-A^{18}-A^{19}-A^{20}-A^{21}-A^{22}-A^{23}-A^{24}-A^{25}-A^{26}-A^{27}-A^{28}-A^{29}-A^{30}-A^{31}-A^{32}-A^{33}-A^{34}-A^{35}-A^{36}-A^{37}-A^{38}-A^{39}-R^1

(I)

wherein

A^7 is L-His, Ura, Paa, Pta, Amp, Tma-His, des-amino-His, or deleted;

A^8 is Ala, β-Ala, Gly, Ser, D-Ala, Aib, Acc, N-Me-Ala, N-Me-D-Ala or N-Me-Gly;

A^9 is Glu, N-Me-Glu or N-Me-Asp;

A^{10} is Gly, Acc, β-Ala or Aib;

A^{11} is Thr;

A^{12} is Phe, Acc, 1Nal, 2Nal, or Aic;

A^{13} is Thr;

A^{14} is Ser or Aib;

A^{15} is Asp;

A^{16} is Val, Acc or Aib;

A^{17} is Ser;

A^{18} is Ser or Lys;

A^{19} is Tyr, 1Nal or 2Nal;

A^{20} is Leu, Acc or Cha;

A^{21} is Glu;

A^{22} is Gly, Acc, β-Ala, Glu or Aib;

A^{23} is Gln or Glu;

A^{24} is Ala, Aib or Acc;

A^{25} is Ala, Aib, Acc, Lys, Arg, hArg, Orn, HN-CH($(CH_2)_n$-$N(R^{10}R^{11})$)-C(O) or HN-CH($(CH_2)_e$-X^3)-C(O);

A^{26} is Lys, Arg, hArg, Orn, Lys(N^{ε}-decanoyl)), HN-CH((CH_2)$_n$-N($R^{10}R^{11}$))-C(O) or HN-CH((CH_2)$_e$-X^3)-C(O);

A^{27} is Glu, Leu, Aib or Lys;

A^{28} is Phe, 1Nal or 2Nal;

A^{29} is Ile or Acc;

A^{30} is Ala or Aib;

A^{31} is Trp, Phe, 1Nal or 2Nal;

A^{32} is Leu, Acc or Cha; ~~and~~

A^{33} is Val, Lys or Acc;

A^{34} is Lys, Arg, hArg, Orn, HN-CH((CH_2)$_n$-N($R^{10}R^{11}$))-C(O) or HN-CH((CH_2)$_e$-X^3)-C(O);

A^{35} is β-Ala, D-Ala, Gaba, Ava, HN-(CH_2)$_m$-C(O), Aib, Acc, D-Arg or a D-amino acid;

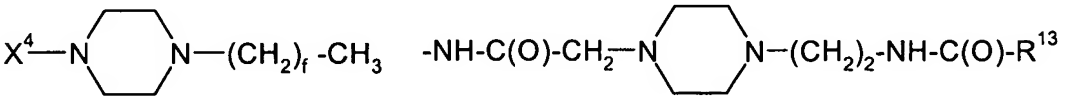
A^{36} is L- or D-Arg, D- or L-Lys, or Lys(N^{ε}-decanoyl) or Lys(N^{ε}-dodecanoyl) or D- or L-hArg, D- or L-Orn or HN-CH((CH_2)$_n$-N($R^{10}R^{11}$))-C(O), or HN-CH((CH_2)$_e$-X^3)-C(O);

A^{37} is Gly, β-Ala, Gaba, Aib, Acc, Act, Apc, Aun, Ava, Pro, Dhp, Dmt, Pip, L- or D- Arg, L- or D- Asp or Glu, Lys(N^{ε}-decanoyl), Lys(N^{ε}-dodecanoyl), Lys(N^{ε}-octanoyl), Lys(N^{ε}-tetradecanoyl), or Ser(O-decanoyl);

A^{38} is D- or L- His, L- or D-Ala, Asn, Gln, Ser, Thr, Acc, Ado, Aib, Apc, Act, Arg, Ava, Gly, β-Ala, Gaba, or HN-(CH_2)$_s$-C(O);

A^{39} is D- or L- His, L- or D-Ala, Asn, Gln, Ser, Thr, Acc, Ado, Aib, Apc, Act, Arg, Aun, Gly, β-Ala, Gaba, Lys(N^{ε}-octanoyl), HN-(CH_2)$_s$-C(O), or deleted;

R^1 is OH, NH_2; (C_1-C_{30})alkoxy, or NH-X^2-CH_2-Z^0, wherein X^2 is a (C_0-C_2), (C_4-C_9) or (C_{11}-C_{19})hydrocarbon moiety and Z^0 is H, OH, CO_2H or $CONH_2$;

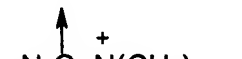
X^3 is 

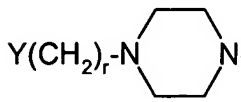
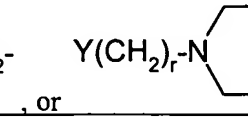
or –C(O)-NHR^{12}, wherein X^4 is, independently for each occurrence, -C(O)-, -NH-C(O)- or -CH_2-, and wherein f is, independently for each occurrence, an integer from 1 to 29 inclusive;

each of R^2 and R^3 is independently selected from the group consisting of H, (C_1-C_{30})alkyl, (C_2-C_{30})alkenyl, optionally substituted phenyl(C_1-C_{30})alkyl, optionally substituted naphthyl(C_1-C_{30})alkyl, hydroxy(C_1-C_{30})alkyl, hydroxy(C_2-C_{30})alkenyl, hydroxyphenyl(C_1-C_{30})alkyl, and hydroxynaphthyl(C_1-C_{30})alkyl;

wherein the phenyl group of said optionally substituted phenyl(C_1-C_{30})alkyl moiety, and said naphthyl group of said optionally substituted naphthyl(C_1-C_{30})alkyl moiety each is,

independently for each occurrence, substituted with 1 or more substituents selected, independently for each occurrence, from the group consisting of halo, OH, NH_2, NO_2 and CN;

or one of R^2 and R^3 is  , $(C_1$-$C_{30})$acyl, $(C_1$-$C_{30})$alkylsulfonyl, $C(O)X^5$,

 , or  ; wherein Y is H, OH or NH_2; r is 0 to 4; q is 0 to 4; and X^5 is $(C_1$-$C_{30})$alkyl, $(C_2$-$C_{30})$alkenyl, phenyl$(C_1$-$C_{30})$alkyl, naphthyl$(C_1$-$C_{30})$alkyl, hydroxy$(C_1$-$C_{30})$alkyl, hydroxy$(C_2$-$C_{30})$alkenyl, hydroxyphenyl$(C_1$-$C_{30})$alkyl or hydroxynaphthyl$(C_1$-$C_{30})$alkyl;

X^6,X^7,X^8,X^9,X^{10} for each occurrence is independently selected from the group consisting of H, $(C_1$-$C_6)$alkyl, OH, OR^4, NO_2, CN, and halo;

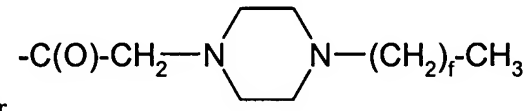
R^4 is $(C_1$-$C_{30})$alkyl, $(C_2$-$C_{30})$alkenyl, phenyl$(C_1$-$C_{30})$alkyl, naphthyl$(C_1$-$C_{30})$alkyl, hydroxy$(C_1$-$C_{30})$alkyl, hydroxy$(C_2$-$C_{30})$alkenyl, hydroxyphenyl$(C_1$-$C_{30})$alkyl or hydroxynaphthyl$(C_1$-$C_{30})$alkyl;

e is, independently for each occurrence, an integer from 1 to 4 inclusive;

m is, independently for each occurrence, an integer from 5 to 24 inclusive;

s is, independently for each occurrence, an integer from 5 to 10 or from 12 to 20 inclusive;

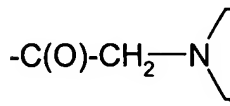
n is, independently for each occurrence, an integer from 1 to 5, inclusive;

each of R^{10} and R^{11} is, independently for each occurrence, H, $(C_1$-$C_{30})$alkyl, $(C_1$-$C_{30})$acyl, $(C_1$-$C_{30})$alkylsulfonyl, –C((NH)(NH_2)) or  ; and

R^{12} and R^{13} each is, independently for each occurrence, $(C_1$-$C_{30})$alkyl;

provided that:

when A^7 is Ura, Paa or Pta, then R^2 and R^3 are deleted;

when R^{10} is $(C_1$-$C_{30})$acyl, $(C_1$-$C_{30})$alkylsulfonyl, –C((NH)(NH_2)) or  , then R^{11} is H or $(C_1$-$C_{30})$alkyl;

(i) at least one amino acid of a compound of formula (I) is not the same as the native sequence of hGLP-1(7-38 or -39)NH_2 or hGLP-1(7-38 or -39)OH;

(ii) a compound of formula (I) is not an analogue of hGLP-1(7-38 or -39)NH_2 or hGLP-1(7-38, or -39)OH wherein a single position has been substituted by Ala;

(iii) a compound of formula (I) is not ($Arg^{26,34}$, Lys^{38})hGLP-1(7-38)-E, (Lys^{26}(N^{ε}-alkanoyl))hGLP-1(7-38)-E, (Lys^{34}(N^{ε}-alkanoyl))hGLP-1(7-38)-E, ($Lys^{26,34}$-bis(N^{ε}-alkanoyl))hGLP-1(7-38)-E, (Arg^{26}, Lys^{34}(N^{ε}-alkanoyl))hGLP-1(8-38)-E, ($Arg^{26,34}$, Lys^{36}(N^{ε}-alkanoyl))hGLP-1(7-38)-E or ($Arg^{26,34}$, Lys^{38}(N^{ε}-alkanoyl))hGLP-1(7-38)-E, wherein E is -OH or $-NH_2$;

(iv) a compound of formula (I) is not Z^1-hGLP-1(7-38)-OH, Z^1-hGLP-1(7-38)-NH_2; wherein Z^1 is selected from the group consisting of:

(a) (Arg^{26}), (Arg^{34}), ($Arg^{26,34}$), (Lys^{36}), (Arg^{26}, Lys^{36}), (Arg^{34}, Lys^{36}), (D-Lys^{36}), (Arg^{36}), (D-Arg^{36}), ($Arg^{26,34}$, Lys^{36}) or ($Arg^{26,36}$, Lys^{34});

(b) (Asp^{21});

(c) at least one of (Aib^8), (D-Ala^8) and (Asp^9); and

(d) (Tyr^7), (N-acyl-His^7), (N-alkyl-His^7), (N-acyl-D-His^7) or (N-alkyl-D-His^7); and

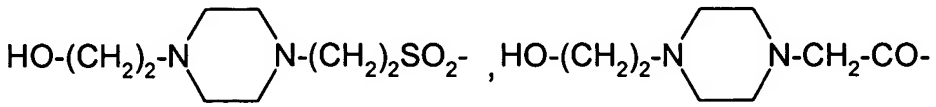
(v) a compound of formula (I) is not a combination of any two of the substitutions listed in groups (a) to (d);

or a pharmaceutically acceptable salt thereof.

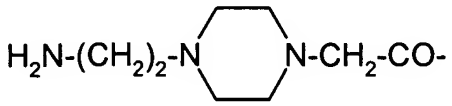
4. (Currently amended) A compound according to ~~claim 2~~ claim 3, wherein A^8 is Ala, Gly, Ser, D-Ala, Aib, A6c, A5c, N-Me-Ala, N-Me-D-Ala or N-Me-Gly; A^{10} is Gly; A^{12} is Phe, 1Nal, 2Nal, A6c or A5c; A^{16} is Val, A6c or A5c; A^{20} is Leu, A6c, A5c or Cha; A^{22} is Gly, β-Ala, Glu or Aib; A^{24} is Ala or Aib; A^{29} is Ile, A6c or A5c; A^{32} is Leu, A6c, A5c or Cha; A^{33} is Val, Lys, A6c or A5c; A^{35} is Aib, β-Ala, Ado, A6c, A5c, D-Arg or Acc; A^{37} is Gly, Aib, β-Ala, D-Ala, Pro, Asp, Aun or D-Asp; A^{38} is D- or L- His, Asn, Ser, Apc, Act, Gly, β-Ala or Gaba; and A^{39} is Ser, Thr or Aib; or a pharmaceutically acceptable salt thereof.

5. (Original) A compound according to claim 4 or a pharmaceutically acceptable salt thereof, X^4 for each occurrence is -C(O)-; and R^1 is OH or NH_2; or a pharmaceutically acceptable salt thereof.

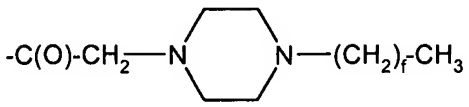
6. (Original) A compound according to claim 5 or a pharmaceutically acceptable salt thereof, wherein R^2 is H and R^3 is (C_1-C_{30})alkyl, (C_2-C_{30})alkenyl, (C_1-C_{30})acyl, (C_1-C_{30})alkylsulfonyl,



or

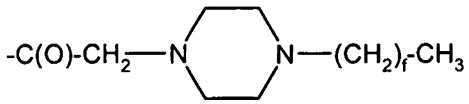


7. (Original) A compound according to claim 5 or a pharmaceutically acceptable salt thereof, wherein R^{10} is (C_1-C_{30})acyl, (C_1-C_{30})alkylsulfonyl or

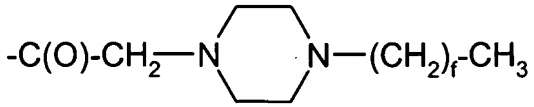


, and R^{11} is H.

8. (Original) A compound according to claim 7 or a pharmaceutically acceptable salt thereof, wherein R^{10} is (C_4-C_{20})acyl, (C_4-C_{20})alkylsulfonyl or

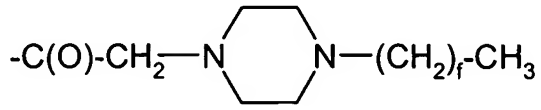


9. (Currently amended) A compound according to ~~claim 2~~ claim 3, wherein: A^8 is Ala, D-Ala, Aib, A6c, A5c, N-Me-Ala, N-Me-D-Ala or N-Me-Gly; A^{10} is Gly; A^{12} is Phe, 1Nal, 2Nal, A6c or A5c; A^{16} is Val, A6c or A5c; A^{20} is Leu, A6c, A5c or Cha; A^{22} is Gly, β-Ala, Glu or Aib; A^{24} is Ala or Aib; A^{29} is Ile, A6c or A5c; A^{32} is Leu, A6c, A5c or Cha; A^{33} is Val, Lys, A6c or A5c; A^{35} is Aib, β-Ala, Ado, A6c, A5c or D-Arg; and A^{37} is Gly, Aib, β-Ala, D-Ala, Pro or D-Asp; A^{38} is D- or L- His, Asn, Ser, Gly, β-Ala or Gaba; and A^{39} is Ser, or deleted; X^4 for each occurrence is -C(O)-; e for each occurrence is independently 1 or 2; R^1 is OH or NH_2; R^{10} is



(C_1-C_{30})acyl, (C_1-C_{30})alkylsulfonyl or , and R^{11} is H; or a pharmaceutically acceptable salt thereof.

10. (Original) A compound according to claim 9, wherein R^{10} is (C_4-C_{20})acyl, (C_4-



C_{20})alkylsulfonyl or , or a pharmaceutically acceptable salt thereof.

11. (Currently amended) A compound according to ~~claim 2~~ claim 3 wherein said compound is according to the formula:

(Aib^{8,35}, Arg^{26,34}, Phe^{31}, Pro^{37}, Ser^{38,39})hGLP-1(7-39)-NH_2; (SEQ ID NO:1)

(Aib^{8,35,37}, Arg^{26,34}, Phe^{31}, Asn^{38})hGLP-1(7-38)-NH_2; (SEQ ID NO:2)

(Aib^{8,35,37}, Arg ^{26,34}, Phe^{31}, Ser ^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:3)

(Aib^{8,35,37}, Gaba^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:4)

(Aib^{8,35,37}, Arg^{26,34}, Phe^{31}, His^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:5)

(Aib^{8,35}, Arg^{26,34}, Phe^{31}, β-Ala^{37}, His^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:6)

(Aib^{8,35,37}, Arg^{26,34}, D-His^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:7)

(Aib^{8,35,37}, β-Ala^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:8)

(Aib^{8,35}, Arg^{26,34}, β-Ala^{37}, His^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:9)

(Aib^{8,35,37}, Arg^{26,34}, Phe^{31}, Gly^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:10)

(Aib^{8,35,37}, Arg^{26,34}, Gly^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:11)

(Aib^{8,35,37}, Arg^{26,34}, β-Ala^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:12)

(Aib^{8,35,37}, Arg^{26,34}, Gaba^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:13)

(Aib^{8,35,37}, Arg^{34}, Phe^{31}, His^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:14)

(Aib^{8,35,37}, Arg^{26,34}, His^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:15)

(Aib^{8,35,37}, Arg^{26,34}, Phe^{31}, Gaba^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:16)

(Aib^{8,35,37}, Arg^{26,34}, Phe^{31}, Ava^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:17)

(Aib^{8,35,37}, Arg^{26,34}, Ava^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:18)

(Aib^{8,35,37}, Arg^{34}, Phe^{31}, D-His^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:19)

(Aib^{8,35,37}, Arg^{34}, Phe^{31}, Gly^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:20)

(Aib^{8,35,37}, Gly^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:21)

(Aib^{8,35,37}, Arg^{26,34}, Phe^{31}, D-His^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:22)

(Aib^{8,35}, Arg^{26,34}, Phe^{31}, β-Ala^{37}, D-His^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:23)

(Aib^{8,35,37}, Arg^{26,34}, Phe^{31}, β–Ala^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:24)

(Aib^{8,35} , Arg^{26,34}, Phe^{31}, β-Ala ^{37,38})hGLP-1(7-38) NH_2; (SEQ ID NO:25)

(Aib^{8,35,37}, Arg^{34}, Phe^{31}, β-Ala^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:26) or
(Aib^{8,35,37}, Arg^{34}, Phe^{31}, Gaba^{38})hGLP-1(7-38) NH_2; (SEQ ID NO:27)
or a pharmaceutically acceptable salt thereof.

12. (Currently amended) A pharmaceutical composition comprising ~~an effective amount of~~ a compound according to ~~claim 2~~ claim 3 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier or diluent.

13. (Canceled)

14. (Currently amended) A method of treating a disease selected from the group consisting of Type I diabetes[[,]] and Type II diabetes~~, obesity, glucagonomas, secretory disorders of the airway, metabolic disorder, arthritis, osteoporosis, central nervous system disease, restenosis, neurodegenerative disease, renal failure, congestive heart failure, nephrotic syndrome, cirrhosis, pulmonary edema, hypertension, treatment of respiratory distress, disorders wherein the reduction of food intake is desired, hypoglycemia and malabsorption syndrome associated with gastroectomy or small bowel resection,~~ in a subject in need thereof which comprises administering to said subject an effective amount of a compound according to ~~claim 2~~ claim 11 or a pharmaceutically acceptable salt thereof.

15-27. (Canceled)